100041

FACSIMILE COVERSHEET



EPA Region 5 Records Ctr.

1360 N. Wood Dale Road Suite A Wood Dale, Illinois 60191 Phone: 630.616.2100 630.616.9203 Fax:

Recipient Information

Sender Information

10: Ababi Harris	SENT BY: Ghave Banks
COMPANY: US FPA Region V	ENTACT: (650) 616-2100
FAX #: (3,12) 336-4011	DATE: 12/16/07
# OF PAGES INCLUDING THIS SHEET:	

COMMENTS:

The following is analytical for your records of
the backfirl source and the B verification
camples pulled from the treated stockpiled rail
Call if you have any questions.
Chave Perket

IF FAX IS NOT RECEIVED IN ITS ENTIRETY, PLEASE NOTIFY ENTACT AT THE ABOVE TELEPHONE NUMBER. THANK YOU.

2/12



Ross Analytical Services, Inc. 16433 Foltz Industrial Parkway • Strongsville, Ohio 44136 (216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

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CERTIFICATE OF ANALYSIS

Client:

ENTACT

1630 Wood Dale Road Wood Dale, IL 60191

Attn: Shane Banks

Purchase Order: C176

Work Order #: 97-11-132 Client Code: ENTACT

Report Date: 11/26/97

Work ID: Waste Character, TPH, Pests.

Date Received: 11/19/97

SAMPLE IDENTIFICATION

Lab	Sample	Lab	Sample
Number	Description	Number	Description
01	BF-005	02	BF-006

Enclosed are the analytical results for the samples listed above. Analyses were performed by the methods referenced in the Test Methodologies section, while any special circumstances are described in the Report Comments section. Unless otherwise noted, sample results are not moisture-corrected. Most analytes are reported relative to an Estimated Quantitation Limit (EQL), which is the lowest concentration that can be reliably measured under routine laboratory conditions. Questions or comments concerning the enclosed results should be directed to your Client Services Representative.

Analysis for mercury was done at American Analytical Labs
Their results are included

Certificate approved by

Carol L. Turner

Ross Analytical Services, Inc

DATA QUALIFIER FLAGS FOR ORGANIC ANALYSES

Some or all of the organics results for this Work Order are reported using the U.S. EPA's Contract Laboratory Program (CLP) forms and/or data qualifiers. Analyses may have been performed according to CLP protocol or by SW-846 methodologies. The qualifier flags most commonly used on the report forms are described below.

- U The compound was analyzed for but not detected. The value reported is either the Contract Required Quantitation Limit (CRQL) for analyses by CLP protocol, or the Estimated Quantitation Limit (EQL) for analyses by SW-846 methodologies.
- J The result reported is estimated, most commonly because the compound was detected, but at a concentration below the CRQL or EQL.
- P The percent difference between the results determined from the primary and secondary GC columns was greater than 25%. The value reported is the lower of the two results.
- B The compound was also detected in the blank associated with the sample.
- E The concentration exceeded the upper level of the calibration range of the instrument. A valid result for the compound in question must be obtained from a diluted analysis, if possible.
- D The result was quantified from a dilution of the original sample.

0000028

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Work Order # 97-11-132

Ross Analytical Services, Inc.

Reported: 11/26/97

TEST METHODOLOGIES.

pH in solids and non-aqueous liquids was determined electrometrically following slurrying with water as in EPA Method 9045C.

Organochlorine pesticides and PCB's were determined using gas chromatography with electron capture detection as in EPA Method 8081.

Metals were determined in solid and non-aqueous liquid samples by digestion with nitric acid, hydrogen peroxide, and hydrochloric acid as in EPA Method 3050A, followed by Inductively Coupled Plasma Emission Spectroscopy as in EPA Method 6010A, unless noted otherwise.

Total petroleum hydrocarbons were determined by infrared spectroscopy following extraction with Freon-113 as in EPA Method 418.1. Solids were Soxhlet extracted as in EPA Method 9071.

Solid and semisolid samples extracted for organochlorine pesticides and PCB's in an ultrasonic extractor using methylene chloride and acetone as in EPA Method 3550A.

ID:6306169203

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000002D

Work Order # 97-11-132

Ross Analytical Services, Inc Reported: 12/10/97

Sample Description BF-006

Lab No. 02

Test Description TRPH by EPA 418.1

Test Code BCIR

Date Run 11/21/97 Dilution Factor 1 Units _ mq/Kq Compound Result EQL Petroleum hydrocarbons

80 30

000003

Work Order # 97-11-132 Ross Analytical Services, Inc Reported: 11/26/97

Sample Description: BF-005

Lab No .: 01

Analyte Description	Result	Units	ROL
pH by BPA 9045C	7.39	Standard units	
Arsenic by ICP	17	mg/Kg	10
Barium by ICP	32.4	mg/Kg	0.38
Cadmium by ICP	1_42	mg/Kg	0.48
Chromium by ICP	10.7	mg/Kg	1.0
Lead by ICP	12.7	mg/Kg	4.8
Selenium by ICP	<eql< td=""><td>mg/Kg</td><td>10</td></eql<>	mg/Kg	10
Silver by ICP	<eql< td=""><td>mg/Kg</td><td>1.0</td></eql<>	mg/Kg	1.0

Sample Description: BF-006

Lab No.: 02

Analyte Description	Result	<u>Units</u>	BOL
PH by EPA 9045C	7.27	Standard units	
Arsenic by ICP	15	_mg/Kg	10
Barium by ICP	55.8	mg/Kg	0.39
Cadmium by ICP	0.74	mg/Kg	0.49
Chromium by ICP	14.0	mg/Kg	1-0
Lead by ICP	22.4	mg/Kg	4.9
Selenium by ICP	<eql< td=""><td>mg/Kg</td><td>10</td></eql<>	mg/Kg	10
Silver by ICP	<pol< td=""><td>ma/Ka</td><td>1.0</td></pol<>	ma/Ka	1.0

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ANALYTICAL RESULTS

000005

Client Sample ID....: S BF-006
Data Type...... SAMPLE

Method..... L8080.m Dilution Factor...: 1

Compound Sub-List....: 8081 Percent Moisture...: 0 % Undecanted

Surrogate Ana CAS Number	alytes Analyte	% Recovery	Flags	Recovery Lower -		
877-09-8 2051-24-3	Tetrachloro-m-xylene Decachlorobiphenyl	92% 108%		10 - 10 -		SURROGATE SURROGATE
Target Analyt	tes Analyte	Results (ug/Kg)	Flags	5	EQL	
11104-28-2 319-84-6 12674-11-2 11141-16-5 58-89-9	Aroclor-1221 alpha-BHC Aroclor-1016 Aroclor-1232 gamma-BHC (Lindane)	< EQL < EQL < EQL < EQL < EQL			66.0 1.70 33.0 33.0 1.70	
319-85-7 76-44-8 319-86-8 309-00-2 53469-21-9	beta-BHC Heptachlor delta-BHC Aldrin Aroclor-1242	1.60 < EQL < EQL < EQL < EQL	J1		1.70 1.70 1.70 1.70 1.70 33.0	
1024-57-3 12672-29-6 5103-74-2 5103-71-9 959-98-8	Heptachlor epoxide Aroclor-1248 gamma-Chlordane alpha-Chlordane Endosulfan I	< EQL < EQL < EQL < EQL			1.70 33.0 1.70 1.70 1.70	
72-55-9 60-57-1 11097-69-1 72-20-8 72-54-8	4,4'-DDE Dieldrin Aroclor-1254 Endrin 4,4'-DDD	1.20 < EQL < EQL < EQL < EQL	JI		3.30 3.30 33.0 3.30 3.30	
33213-65-9 50-29-3 8001-35-2 7421-93-4 1031-07-8	Endosulfan II 4,4'-DDT Toxaphene Endrin aldehyde Endosulfan sulfate	< EQL < EQL < EQL < EQL			3.30 3.30 66.0 3.30 3.30	
11096-82-5 72-43-5 53494-70-5	Aroclor-1260 Methoxychlor Endrin ketone	< EQL < EQL			33.0 17.0 3.30	

DEC-16-97 10:13 FROM:ENTACT CHICAGO Order # 97-11-428 Americ

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11/26/97

American Analytical

Mercury

Method: \$\\846 7471

(BF-006)

Detection

Samo Sample Description <u>Result</u> 04A 971113202/CBL2B Bin 1 < 0.05

Units mg/Kg

Limit 0.05

Analyzed By 11/25/97 JSC



Ross Analytical Services, Inc. 16433 Foltz Industrial Parkway - Strongsville, Ohio 44136 (216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ENTACT

1630 Wood Dale Road Wood Dale, IL 60191

Attn: Shane Banks

Work Order #: 97-12-021

Client Code: ENTACT Report Date: 12/11/97

Work ID: Soils for TCLP Lead

Date Received: 12/04/97

Purchase Order: C176

SAMPLE IDENTIFICATION

Lab	Sample	Lab	Sample
Number	Description	Number	Description
01	TS-01	02	TS-02
03	TS-03	04 🗳	TS-04
05	TS-05	06	TS-06
07	TS-07	08	TS-08

Enclosed are the analytical results for the samples listed above. Analyses were performed by the methods referenced in the Test Methodologies section, while any special circumstances are described in the Report Comments section. Unless otherwise noted, sample results are not moisture-corrected. Most analytes are reported relative to an Estimated Quantitation Limit (EQL), which is the lowest concentration that can be reliably measured under routine laboratory conditions. Questions or comments concerning the enclosed results should be directed to your Client Services Representative.

Certificate approved by

Carol L. Turner

Reported: 12/10/97

Work Order # 97-12-021

Ross Analytical Services, Inc

TEST METHODOLOGIES

The bottle leaching step of TCLP (for metals and semivolatile organics) was performed by EPA Method 1311. Matrix spikes, if any, were added at the time of digestion or extraction for further analyses.

Metals were determined in aqueous samples and leachates by digestion with nitric and hydrochloric acids as in BPA Method 3010A, followed by Inductively Coupled Plasma Emission Spectroscopy as in EPA Method 6010A unless noted otherwise.

TCLP Lead by ICP

Work Order # 97-12-021 Ross Analytical Services, Inc Reported: 12/10/97

Sample Description:	TS-01		Lab No.:	01
Analyte Description TCLP fluid leaching TCLP Lead by ICP		Result 12/08/97 <bql< td=""><td>Units Date begun mg/L</td><td>BOL 0.25</td></bql<>	Units Date begun mg/L	BOL 0.25
Sample Description:	TS-02		Lab No.:	Ó2
Analyte Description TCLP fluid leaching TCLP Lead by ICP		<u>Result</u> 12/08/97 <eql< td=""><td><u>Units</u> Date begun mg/L</td><td></td></eql<>	<u>Units</u> Date begun mg/L	
Sample Description:	TS-03		Lab No.:	03
Analyte Description TCLP fluid leaching TCLP Lead by ICP		Result 12/08/97 0.72	<u>Units</u> Date begun mg/L	<u>ROL</u> 0.25
Sample Description:	TS-04		Lab No.:	04
Analyte Description TCLP fluid leaching TCLP Lead by ICP		<u>Result</u> 12/08/97 <eql< td=""><td><u>Units</u> Date begun mg/L</td><td><u>EOL</u> 0.25</td></eql<>	<u>Units</u> Date begun mg/L	<u>EOL</u> 0.25
Sample Description:	TS-05		Lab No.:	05
Analyte Description TCLP fluid leaching TCLP Lead by ICP		<u>Result</u> 12/08/97 <eql< td=""><td><u>Units</u> Date begun mg/L</td><td><u>EQL</u> 0.25</td></eql<>	<u>Units</u> Date begun mg/L	<u>EQL</u> 0.25
Sample Description:	TS-06		Lab No.:	06
Analyte Description TCLP fluid leaching		<u>Result</u> 12/08/97	<u>Units</u> Date begun	EOL

<EQL

mg/L

0.25

Work Order # 97-12-021 Ross Analytical Services, Inc

Reported: 12/10/97

Sample Description: TS-07

Lab No .: 07

Analyte Description TCLP fluid leaching TCLP Lead by ICP

Result 12/08/97 <BQL

Units Date begun mg/L

EQL 0.25

Sample Description: TS-08

<u>Lab No.:</u> 08

Analyte Description TCLP fluid leaching TCLP Lead by ICP

Result 12/08/97 <EQL

Units Date begun mg/L

0.25

<u> BQL</u>